

United States
Department of
Agriculture

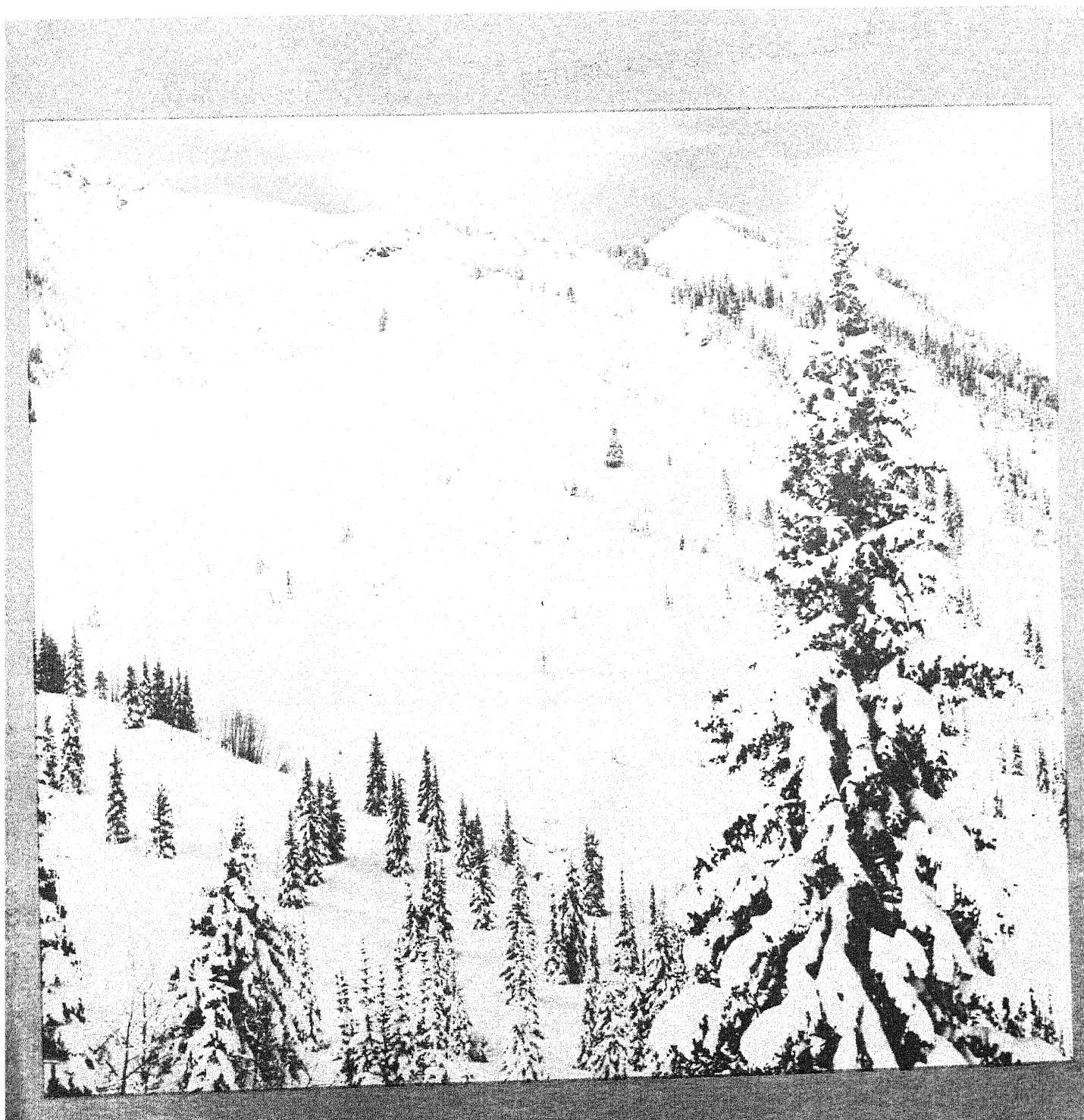
Soil
Conservation
Service

Salt Lake City,
Utah



Utah Water Supply Outlook

January 1, 1986



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values about one out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemeter to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff to central data collection facilities.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the state offices listed below. Because of the limited space, snow survey measurements are not published in most reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published monthly by the Soil Conservation Service and National Weather Service, January through May. Reports obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Boulevard, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Report, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Alberta, T3C 1A6.

Utah Water Supply Outlook

and

Federal – State – Private Cooperative Snow Surveys

Issued by

Wilson Scaling
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Soil Conservation Service
Washington, D. C.

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State Conservationist
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Salt Lake City, Utah

In cooperation with

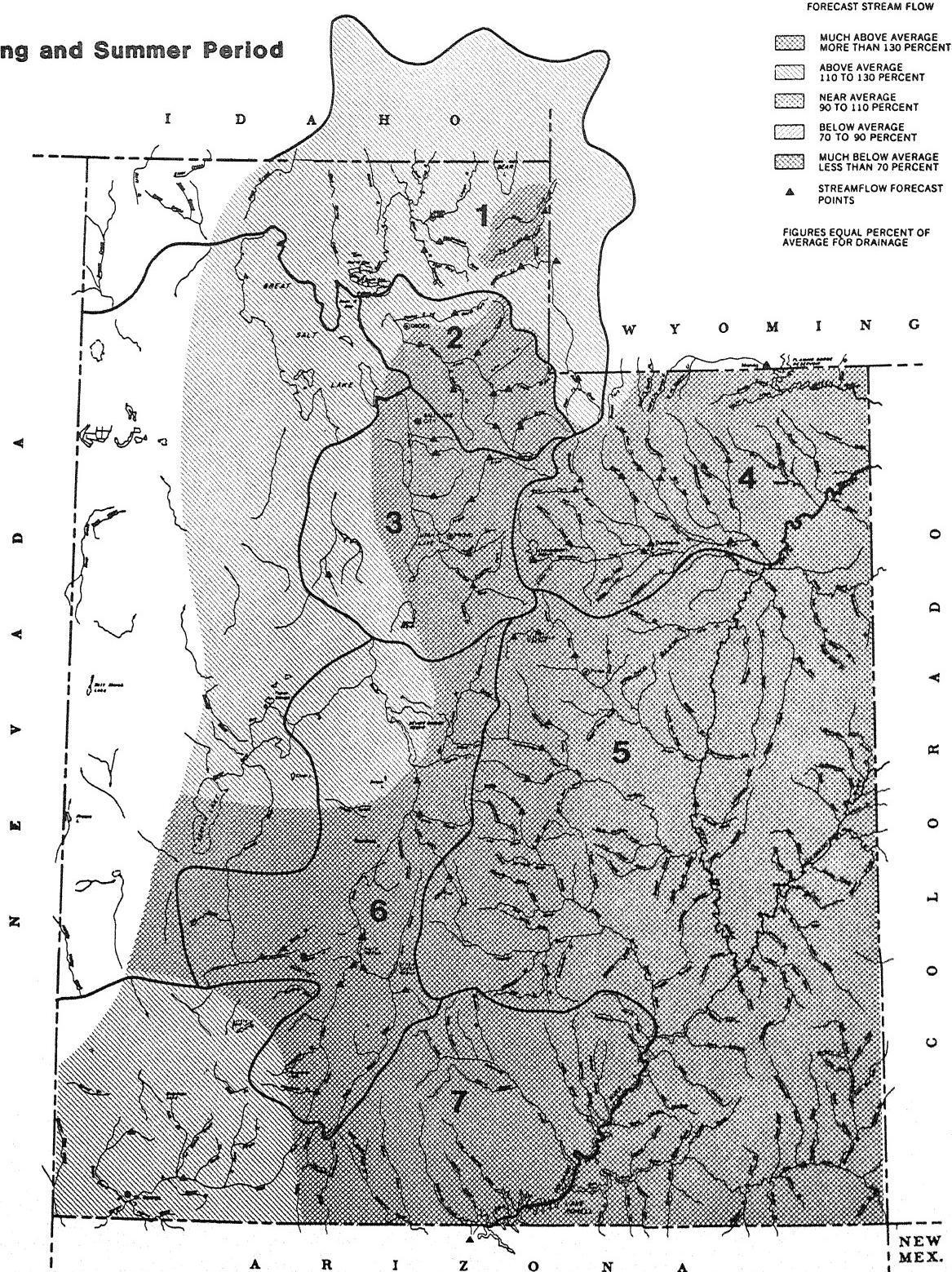
Utah State Department of Natural Resources
Robert L. Morgan D. Larry Anderson
State Engineer Director
Division of Water Rights Division of Water Resources

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Streamflow Prospects for Utah

Spring and Summer Period



- 1 BEAR RIVER BASIN
- 2 WEBER & OGDEN WATERSHEDS IN UTAH
- 3 UTAH LAKE, JORDAN RIVER & TOOKELE VALLEY
- 4 UNITAH BASIN & DAGGET SCD'S
- 5 CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO.
- 6 SEVIER & BEAVER RIVER BASINS
- 7 E. GARFIELD, KANE, WASHINGTON, & IRON CO.

GENERAL OUTLOOK

SUMMARY:

Excellent water supplies are forecasted for this season with the heavy fall precipitation and early snowfalls. Saturated mountain soil profiles and current snowpacks ranging from normal to twice normal support forecasts of spring and summer streamflows of the same magnitude.

SNOWPACK:

Snowpack on all watersheds of the state which were surveyed was greater than normal for January 1. Southwestern Utah, compared to average, had the least snow with 114% while the Uinta Mountains came in at an impressive 174%.

PRECIPITATION:

Precipitation at mountain stations was well above average over the entire State for the October through December period ranging from 121% in the southwest to 163% over the Uinta Mountains.

RESERVOIRS:

Storage in 26 of the major reservoirs in Utah as of the end of December was at 134% of average for that date. Carryover was very good again this year in most reservoirs in the state.

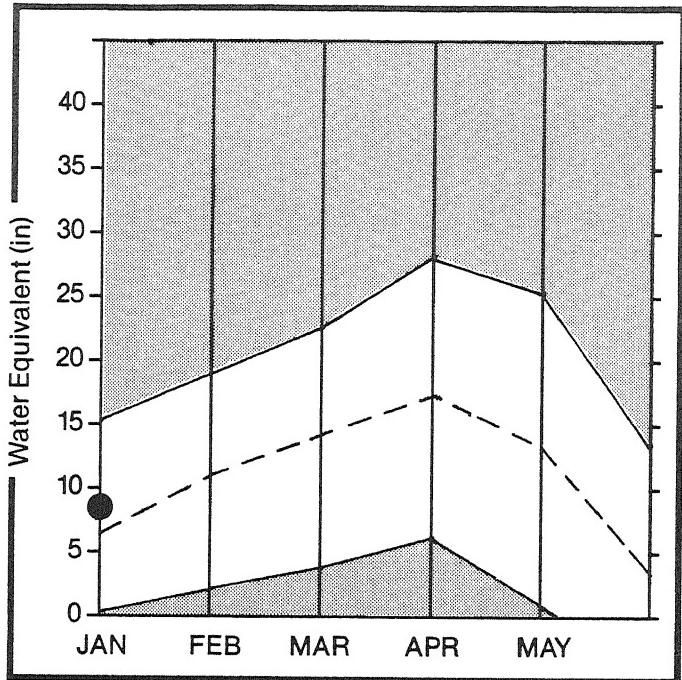
STREAMFLOW:

Water supply forecasts throughout the state are near to much above average ranging from 90% for South Willow Creek near Grantsville to more than three times average on the Sevier.

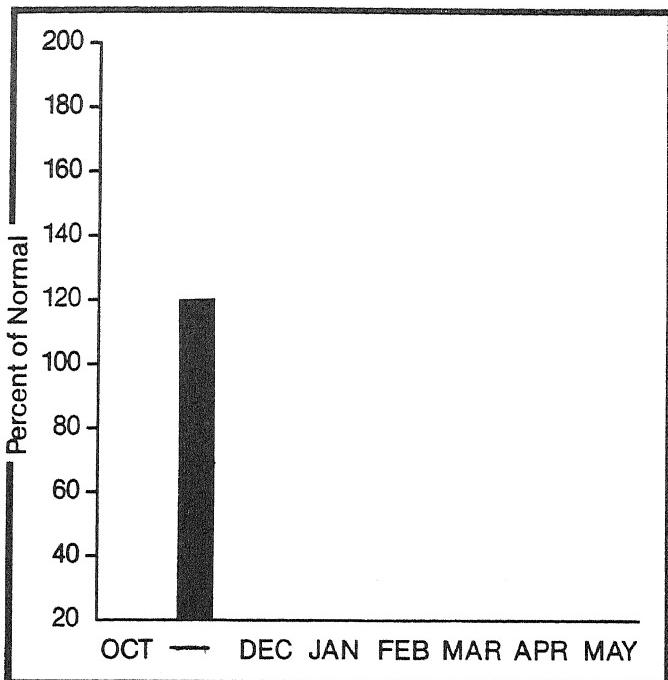
Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

Bear River Basin

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum Average
Minimum Current

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Bear River Watershed stands at 134% of the January 1 average. Snowpack on the Logan River is 131% of normal for this time of year. Streamflow forecasts range from 102% for Smith's Fork near Border to 137% for Big Creek near Randolph. Seasonal precipitation (October through December) is at 121% of average. Reservoir storage ranges from 103% of average in Hyrum Reservoir to 221% in Porcupine Reservoir.

For more information contact your local Soil Conservation Service office:
Tremonton Field Office 801-257-5403
Logan Field Office 801-753-5616

BEAR RIVER BASIN

STREAMFLOW FORECASTS

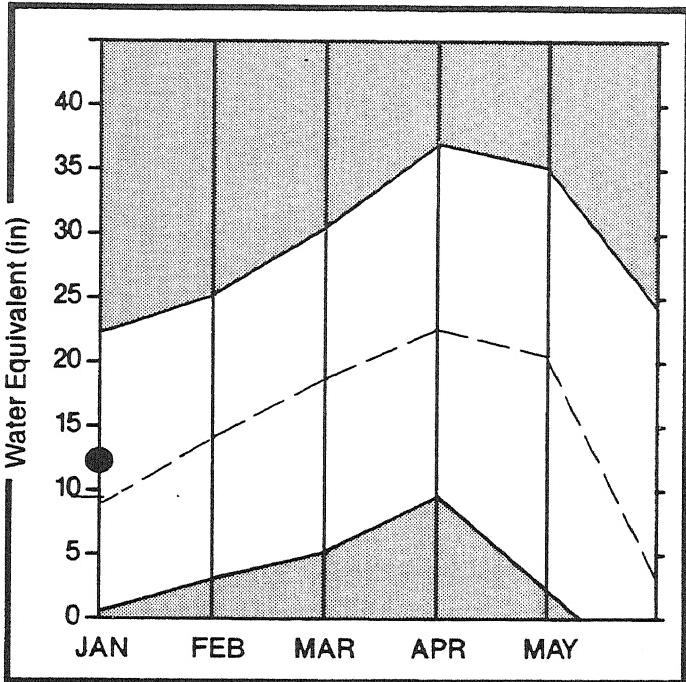
FORECAST POINT	FORECAST PERIOD	20 YR, AVE, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR RIVER near UT-WY Stateline	APR-JUL	110.0	127.0	115.0	145.5	82.7	1700			
BEAR near Woodruff	APR-JUL	139.0	153.0	110.0	164.0	53.2				
WOODRUFF CREEK near Woodruff	APR-JUL	17.3	19.4	112.0	138.7	80.9	271			
BIG CREEK near Randolph	APR-JUL	5.3	7.3	137.0	188.7	75.5	60			
BEAR near Randolph	APR-JUL	110.0	143.0	130.0	197.3	62.7				
THOMAS FORK near Stateline	APR-SEP	35.0	36.0	102.0	131.4	74.3				
SMITHS FORK near Border	APR-SEP	119.0	122.0	102.0	130.3	74.8				
BEAR RIVER near Herer	APR-SEP	310.0	325.0	104.0	145.8	71.0				
LOGAN RIVER near Logan	APR-JUL	116.0	134.0	115.0	145.7	89.7	1140			
BLACKSMITH FORK near Hyrum	APR-JUL	51.0	58.0	113.0	164.7	68.6				
LITTLE BEAR RIVER near Paradise	APR-JUN	38.0	45.6	120.0	178.9	63.2	520			
CUB RIVER near Preston	APR-JUL	46.8	51.0	108.0	175.1	66.2				

RESERVOIR	RESERVOIR STORAGE			WATERSHED	WATERSHED SNOWPACK ANALYSIS			
	USEABLE CAPACITY	** USEABLE STORAGE **			NO. COURSES AVE.D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR			LAST YR.	AVERAGE	
BEAR LAKE	1421.0	1073.7	1095.3	973.3	5	92	134	
HYRUM	15.3	10.3	10.3	10.0	10	83	147	
PORCUPINE	11.3	6.2	3.9	2.8	15	85	143	
WOODRUFF NARROWS		NO REPORT		BEAR RIVER, UPPER IN UTAH	11	101	123	
WOODRUFF CREEK		NO REPORT		BEAR RIVER, LOWER (below	13	92	145	
				BEAR RIVER DRAINAGE	23	96	133	
				LOGAN RIVER	5	75	131	
				RAFT RIVER	0	0	0	
				BEAR RIVER BASIN	27	91	134	

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Weber & Ogden Watersheds

Mountain snowpack* (inches)



*Based on selected stations

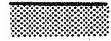
Maximum



Average



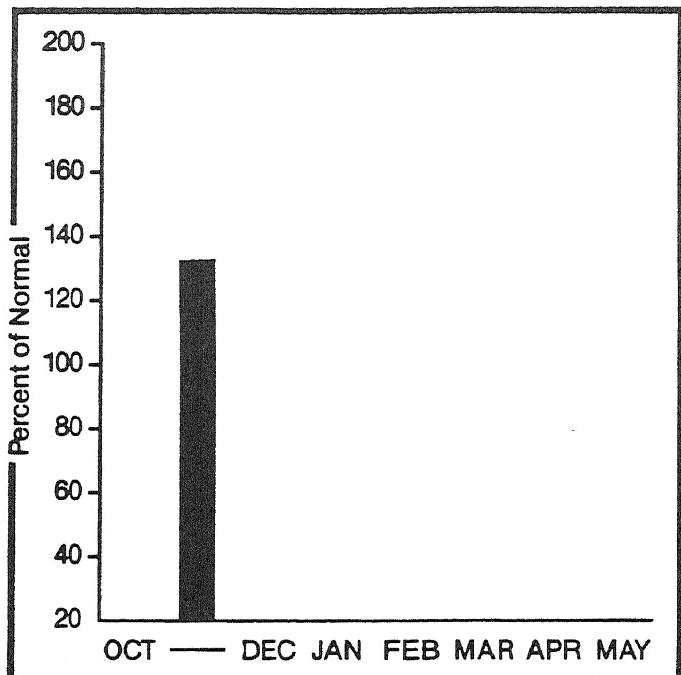
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK*

Snowpack on the Weber River Watershed is 145% of the January 1 average. Ogden River snowpack is 154% of normal. Streamflow forecasts range from 121% of average for Pineview Reservoir Inflow to 160% for Chalk Creek near Coalville. Precipitation for the October through December period averaged 133% of normal across the basin. Reservoir storage as of the end of December stood at 136% of average and 78% of total usable capacity.

For more information contact your local Soil Conservation Service office:
Layton Sub Office 801-544-9144

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEBER RIVER near Oakley	APR-JUN	102.0	142.0	139.0	176.5	105.9	2002			
ROCKPORT RESERVOIR inflow	APR-JUN	111.0	163.0	146.0	198.2	100.9				
CHALK CREEK near Coalville	APR-JUN	36.0	58.0	160.0	211.0	125.0	860			
WEBER RIVER near Coalville	APR-JUN	119.0	177.0	148.0	195.8	110.9				
LOST CREEK near Crovden	APR-JUN	15.4	20.7	132.0	198.7	70.5				
EAST CANYON CREEK near Morgan	APR-JUN	25.0	32.0	128.0	184.0	80.0				
HARDSCRABBLE CREEK near Porterville	APR-JUL	18.4	24.0	130.0	206.5	54.3				
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	57.0	70.0	122.0	157.9	82.5				
PINEVIEW RESERVOIR inflow	APR-JUN	115.0	140.0	121.0	150.4	86.1				
HO RESERVOIR inflow	APR-JUN	145.0	218.0	150.0	197.0	112.0				
WEBER RIVER at Gatedev	APR-JUN	300.0	420.0	140.0	177.0	105.0				
ARMINGTON CREEK near Farmington	APR-JUL	8.2	10.0	121.0	195.1	48.8				

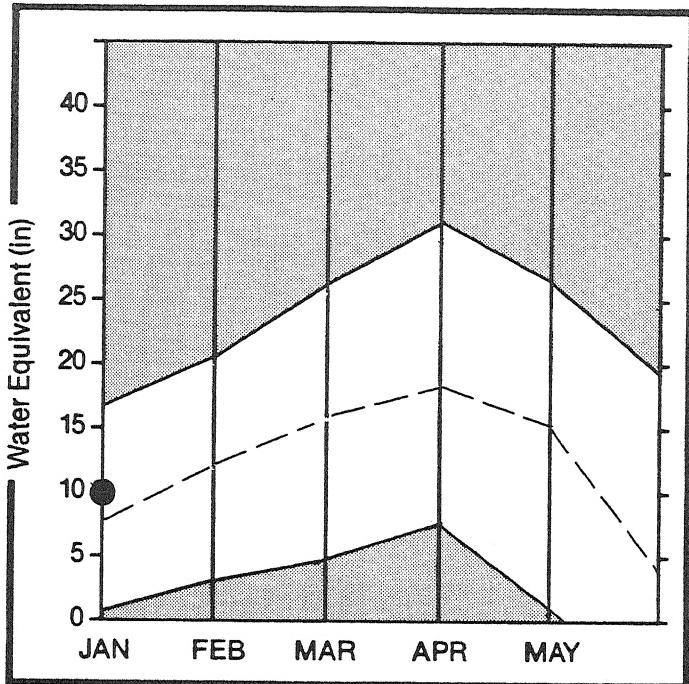
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AVE.D	LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVE.				
CHASEY	6.9	1.9	5.2	2.1	OGDEN RIVER	4	75	154
EAST CANYON	48.1	41.0	46.6	33.3	WEBER RIVER	13	84	145
ECHO	73.9	57.5	69.0	41.4	WEBER & OGDEN WATERSHEDS	17	81	147
LOST CREEK	20.0	15.3	16.9	12.7				
PINEVIEW	110.1	68.9	74.0	50.0				
ROCKPORT	60.9	38.5	48.0	34.1				
HILLARD BAY	165.5	155.1	168.2	104.9				

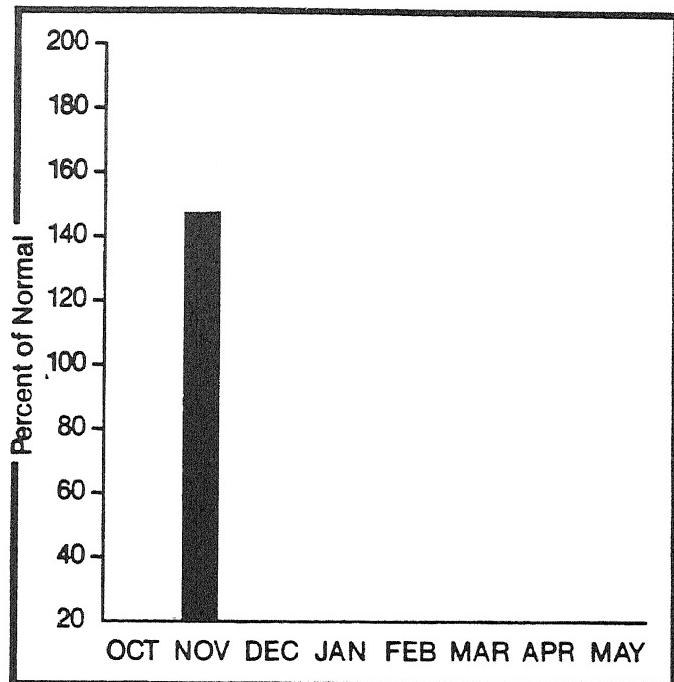
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Lake, Jordan River & Tooele Valley

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum Average

Minimum Current

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Provo River is 152% of normal for the first of January. Snowpack for the entire Utah Lake drainage is 134% of average. The drainages along the Wasatch front east of Salt Lake Valley have 124% of normal snowpack. Streamflow forecasts range from near normal in Tooele County to more than twice normal on Emigration Creek near Salt Lake City. Mountain precipitation totals for October through December were 148% of average. Reservoir storage is 148% of average.

For more information contact your local Soil Conservation Service office:
 Midvale Field Office 801-524-4373
 Provo Field Office 801-377-5580

UTAH LAKE, JORDAN RIVER & TOOKELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR: AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	PEAK MAX. (% AVE.)	PEAK HTD. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
PROVO near Heilstone	APR-JUL	106.0	145.0	136.0	179.7	98.1				
PROVO below Deer Creek Dam	APR-JUL	118.0	170.0	144.0	194.7	95.8				
AMERICAN FORK near American Fl.	APR-JUL	31.0	44.0	142.0	242.0	58.0				
HOBBLE CREEK near Springville	APR-JUL	18.7	30.0	160.0	273.0	64.0				
STRAWBERRY RESERVOIR inflow	APR-JUL	53.0	88.0	166.0	194.3	128.3				
PAYSON CREEK near Payson	APR-JUL	6.2	9.1	146.0	250.0	41.0				
UTAH LAKE inflow	APR-JUL	238.0	425.0	178.0	229.4	178.6				
LITTLE COTTONWOOD CRK near SLC	APR-JUL	38.0	48.0	126.0	144.7	100.0				
BIG COTTONWOOD CRK near SLC	APR-JUL	37.0	50.0	135.0	151.4	116.2				
PARLEY'S CREEK near SLC	APR-JUL	14.8	21.0	141.0	182.4	108.1				
MILL CREEK near SLC	APR-JUL	5.8	9.0	155.0	206.9	103.4				
EMIGRATION CREEK near SLC	APR-JUL	3.7	9.0	243.0	414.2	100.0				
CITY CREEK near SLC	APR-JUL	7.7	11.0	162.0	203.9	59.6				
SETTLEMENT CREEK near Tooele	APR-JUL	2.3	2.3	100.0	143.0	57.0				
SOUTH WILLOW CREEK near Grantsville	APR-JUL	3.0	2.7	90.0	166.7	33.3				
VERNON CREEK near Vernon	APR-JUN	827.0	992.0	119.0	183.9	56.0				

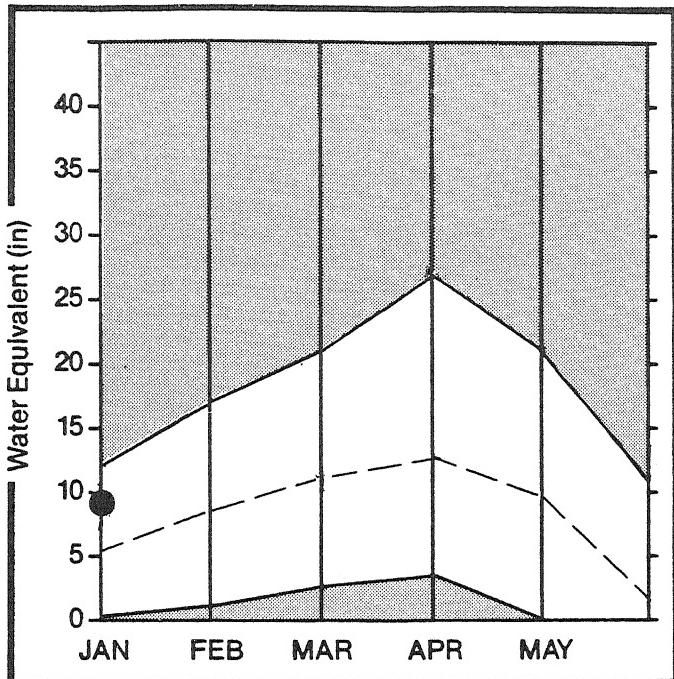
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE AF				WATERSHED	PT. COURSES AVE.D	HTS YR AS % OF	
		THTS	LAST	AVE.	%			LAST YR.	AVERAGE
DEER CREEK	149.7	128.0	123.3	93.5	1	PROVO RIVER & UTAH LAKE	9	92	134
SETTLEMENT CREEK	1.0	0.8	0.0	0.6	1	PROVO RIVER	4	108	152
STRAWBERRY-ENLARGED	951.4	506.0	271.7	---	1	JORDAN RIVER & GREAT SALT	5	72	124
UTAH LAKE	883.9	900.0	1155.4	601.6	1	TOOELE VALLEY WATERSHEDS	6	0	0
VERNON CREEK	0.6	0.2	0.0	0.4	1	UTAH LAKE, JORDAN RIVER &	14	83	130

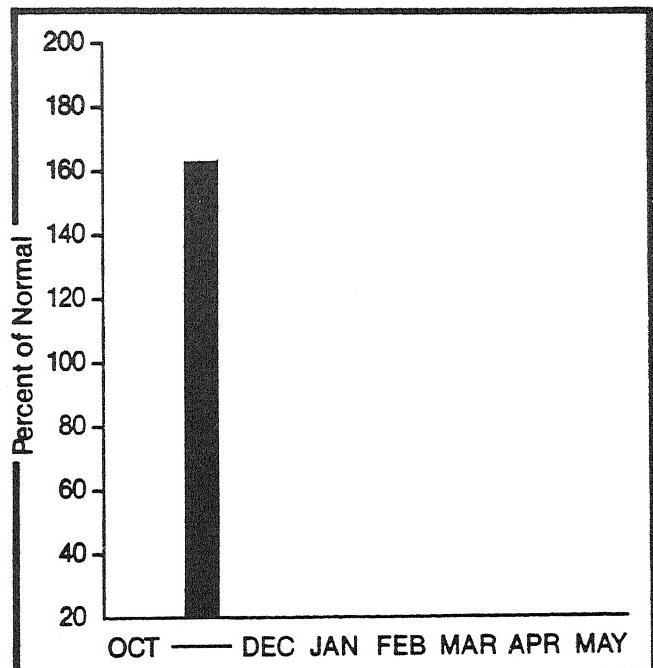
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Uintah Basin & Dagget SCD's

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum

Average -----

Minimum

Current ———

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

January 1 snowpack on drainages in the Uintas was well above average ranging from 133% on Ashley Creek to 224% on Lakefork-Yellowstone Creeks. The ten courses on the Duchesne River averaged 90% above normal. Streamflow forecasts range from 125% for Black's Fork near Millburne to 202% for the Duchesne near Myton. October through December precipitation was 163% of average. Stored water in the reservoirs of the Uintah Basin is 143% of average.

For more information contact your local Soil
Conservation Service office:
Roosevelt Field Office 801-722-4621

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR, AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (%) AVE.)	PEAS. MAX. (%) AVE.)	PEAS. MTN. (%) AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
DUCHEsNE RIVER near Tabiona	APR-JUL	105.0	150.0	142.0	168.6	111.4				
DUCHEsNE RIVER near Duchesne	APR-JUL	189.0	275.0	145.0	176.7	115.3				
STRAWBERRY RIVER at Duchesne	APR-JUL	58.0	95.0	163.0	237.9	89.7	RPO			
ROCK CREEK near Mountain Home	APR-JUL	93.0	135.0	145.0	179.6	118.3	1980			
CURRENT CREEK near Fruitland	APR-JUL	20.0	31.0	155.0	200.0	110.0				
LAKEFORK RIVER near Mountain Home	APR-JUL	70.0	95.0	135.0	170.0	107.1				
YELLOWSTONE RIVER near Altonsh	APR-JUL	65.0	88.0	135.0	178.9	93.8				
DUCHEsNE near Myton	APR-JUL	205.0	415.0	202.0	345.4	145.4				
WHITE ROCKS RIVER near Whitrock	APR-JUL	58.0	88.0	151.0	193.1	116.0				
UINTAH RIVER near Peoa	APR-JUL	86.0	130.0	151.0	173.0	109.3				
DUCHEsNE near Randlett	APR-JUL	257.0	500.0	194.0	268.5	126.6				
WEST FORK DUCHEsNE RIVER near Henns	APR-JUL	26.0	37.5	144.0	176.9	107.7				
HENRY'S FORK near Manila	APR-SEP	48.0	67.0	139.0	185.4	104.2				
BLACK'S FORK near Millburne	APR-JUL	90.0	113.0	125.0	200.0	51.1				
FLAMING GORGE RESERVOIR inflow	APR-JUL	1248.0	1560.0	125.0	160.0	94.0				
ASHLEY CREEK near Vernal	APR-JUL	51.0	69.0	135.0	168.6	107.8				

RESERVOIR STORAGE

(1000AF)

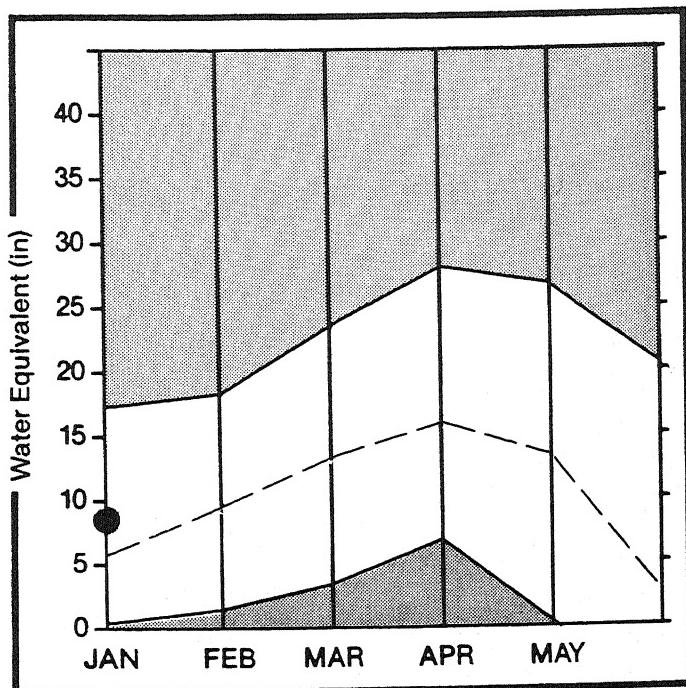
WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF
	THIS YEAR	LAST YEAR	AVE.	AVE.D	LAST YR. AVERAGE
FLAMING GORGE	3749.0	3117.0	3373.0	8	108 140
MOON LAKE	35.8	17.6	24.8	13.6	ASHLEY CREEK
RED FLEET	26.0	19.0	16.8	—	BLACK'S FORK RIVER
STEINAKER	33.3	29.0	29.5	18.2	SHEEP CREEK
STARVATION	165.3	149.0	124.2	105.2	DUCHEsNE RIVER
STRAWBERRY-ENLARGED	951.4	506.0	271.7	—	LAKE FORK-YELLOWSTONE CRE
					STRAWBERRY RIVER
					UINTAH-WHITFROCKS RIVERS
					UINTAH BASIN & DAGGET SCD

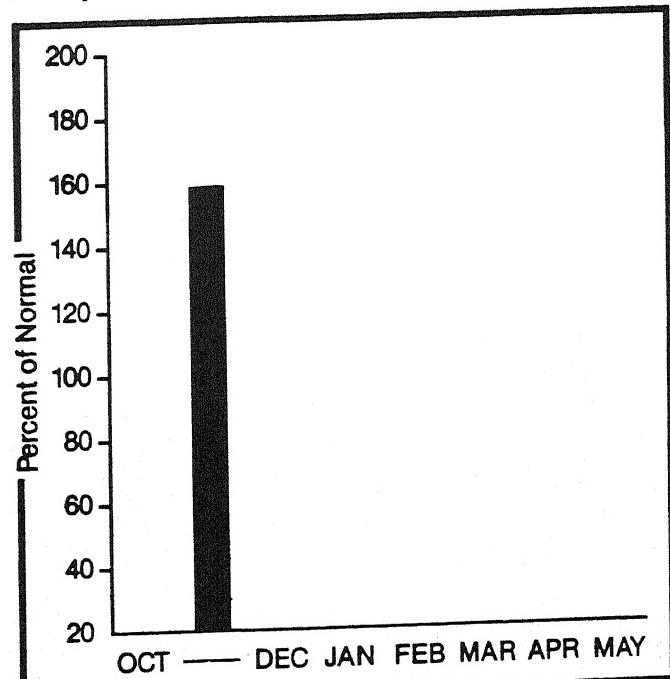
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Carbon, Emery, Wayne, Grand, and San Juan Co.

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum Average

Minimum Current

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on Southeastern Utah watersheds ranges from 121% of average on the Blue Mountains to 153% for the San Rafael. Streamflow is forecast 110% for Seven Mile Creek near Fish Lake ranging upward to 156% for Ferron Creek near Ferron. Precipitation at mountain stations for the October through December period was 159% of normal. Reservoir storage stands at 132% of average for the four area reservoirs with an established average ranging from 113% for Joe's Valley to 243% for Millsite.

For more information contact your local Soil Conservation Service office:
Price Field Office 801-637-0041

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR: AVE, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS: MAX, (% AVE.)	REAS: MTN, (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GOOSEBERRY CREEK near Scofield	APR-JUL	10.7	14.0	130.0	222.0	54.0				
SCOFIELD RESERVOIR inflow	APR-JUL	38.0	52.0	136.0	178.9	102.6				
PRICE near Heiner	APR-JUL	63.0	95.0	150.0	256.0	62.0				
HUNTINGTON GREEK near Huntington	APR-JUL	49.0	75.0	153.0	198.0	118.4				
COTTONWOOD CREEK near Orangeville	APR-JUL	47.0	73.0	155.0	193.6	117.0				
FERRON CREEK near Ferron	APR-JUL	37.0	58.0	156.0	200.0	113.5	654			
MUDY CREEK near Emery	APR-JUL	18.5	26.0	140.0	200.0	81.1	223			
COLORADO near Cisco, UT	APR-JUL	3046.0	4600.0	151.0	209.0	105.0				
GREEN near Green Rv., UT	APR-JUL	3016.0	4000.0	132.0	168.6	94.6				
MILL CREEK near Moab	APR-JUL	5.5	8.6	156.0	218.2	90.9				
NAVAJO RESERVOIR inflow	APR-JUL	684.0	950.0	138.0	198.8	93.9				
SAN JUAN near Bluff, UT	APR-JUL	995.0	1300.0	130.0	198.7	78.7				
SEVEN MILE CREEK near Fish Lake	APR-JUL	6.5	7.2	110.0	169.2	46.2				

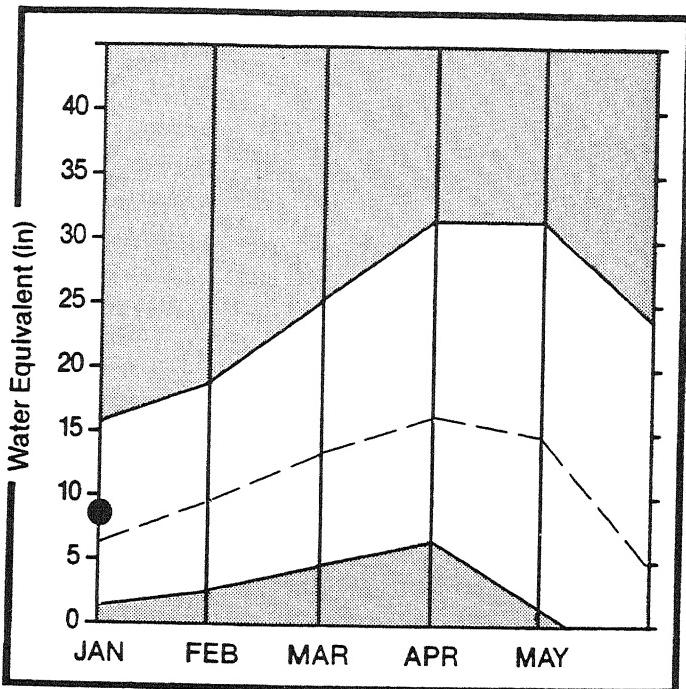
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
	THIS YEAR	LAST YEAR	AVE.			
HUNTINGTON NORTH	3.9	2.5	4.1	2.0	PRICE RIVER	3
JOE'S VALLEY	54.6	48.4	50.0	42.7	SAN RAFAEL RIVER	7
KEN'S LAKE	2.3	0.9	0.0	--	MUDY RIVER	2
MILL SITE	16.7	7.3	9.3	3.0	FREMONT RIVER	3
SCOFIELD	65.8	45.0	47.0	30.3	LASAL MOUNTAINS	2
					BLUE MOUNTAINS	2
					ESCALANTE RIVER	1
					VIRGIN RIVER	4
					CARBON, EMERY, WAYNE, GRA	24
						88
						138

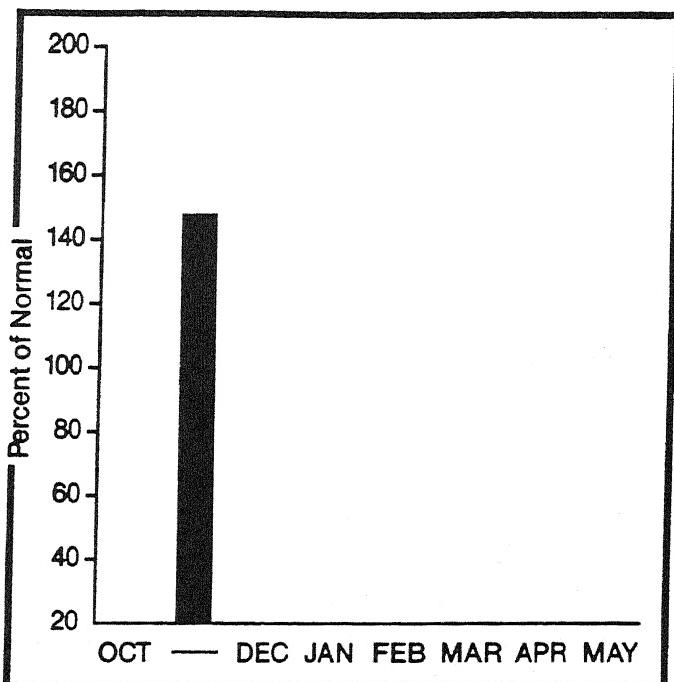
Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Sevier & Beaver River Basins

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum Average
Minimum Current

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Sevier River watershed ranges from 125% on the South Fork to 139% on the Lower Sevier. Beaver River snowpack is 189% of normal for January 1. Water supply forecasts on the Sevier range from 131% at Hatch to 346% on the Siquard to Gunnison reach. The Beaver River is forecast 139% with Minersville Reservoir Inflow forecast 203%. October through December precipitation over the watershed was 151% of normal. Reservoir storage in the Sevier basin is 83% of capacity and 212% of average.

For more information contact your local Soil Conservation Service office:
Richfield Field Office 801-896-6261
Fillmore Field Office 801-743-6655

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

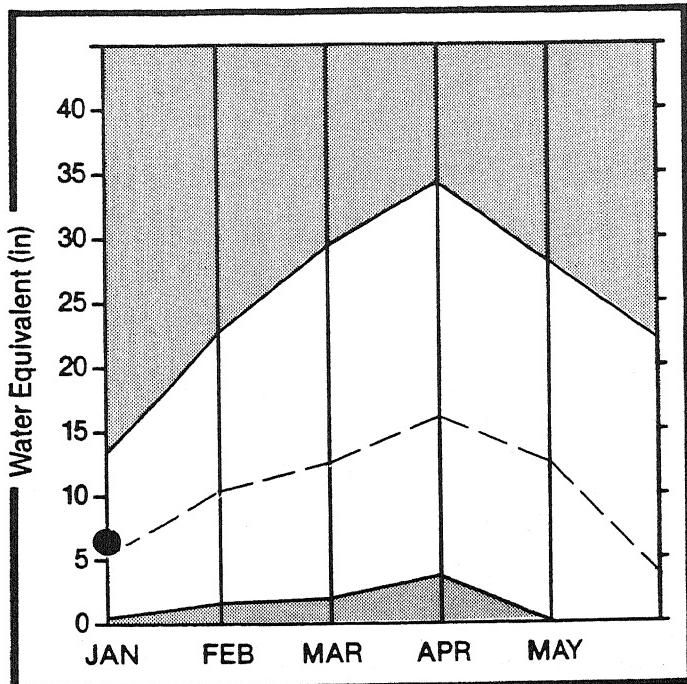
FORECAST POINT	FORECAST PERIOD	20 YR. AUE, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AUE.)	REAS: MAX, (% AUE.)	REAS: MIN, (% AUE.)	PEAK FLOW (CFS)	PEAK DATE	LW FLO4 (CFS)	LW DATE
SEVIER at Hatch	APR-JUL	48.0	63.0	131.0	187.5	87.5				
SEVIER near Circleville	APR-JUL	38.0	60.0	157.0	268.0	65.0				
SEVIER near Kingston	APR-JUL	29.0	40.0	137.0	255.2	51.7				
ANTIMONY CREEK near Antimony	APR-JUL	10.3	11.0	106.0	182.0	44.0				
E F SEVIER near Kingston	APR-JUL	18.9	30.0	159.0	264.0	106.0				
SEVIER blw Piute Dam	APR-JUL	45.0	70.0	155.0	264.4	80.0				
CLEAR CREEK near Sevier	APR-JUL	18.9	25.0	132.0	225.0	54.0				
SIGURD to GUNNISON	APR-JUL	26.0	90.0	346.0	457.7	245.2				
KINGSTON to VERMILLION DAM	APR-JUL	45.0	110.0	244.0	416.0	100.0				
VERMILLION DAM to GUNNISON	APR-JUL	35.0	100.0	285.0	456.0	117.0				
SALINA CREEK at Saline	APR-JUL	11.9	24.0	201.0	343.0	93.0				
SEVIER nr Gunnison	APR-JUL	54.0	150.0	277.0	472.0	114.0				
CHALK CREEK near Fillmore	APR-JUL	16.4	18.9	115.0	176.8	54.9				
CHICKEN CREEK near Leaven	APR-JUL	3.5	4.5	128.0	171.4	85.7				
JAK CREEK near Oak City	APR-JUL	1.6	1.9	118.0	187.5	0.0				
EPHRAIM CREEK near Ephraim	APR-JUL	14.9	20.0	134.0	228.0	59.0				
PLEASANT CREEK near Pleasant	APR-JUL	8.6	11.0	127.0	217.0	52.0				
SALT CREEK near Nephi	APR-JUL	13.5	15.1	111.0	207.4	14.8				
BEAVER RIVER near Beaver	APR-JUL	23.0	32.2	139.0	213.0	82.6	347			
NORTH CREEK near Beaver (combined N	APR-JUL	14.6	19.7	134.0	232.9	41.1				
MINERSVILLE RESERVOIR inflow	APR-JUN	8.9	18.1	203.0	280.9	123.6				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF	LAST YR.	AVERAGE	
	THIS YEAR	LAST YEAR	AVE.	AVE.D				
GUNNISON	18.2	16.8	15.8	9.5	UPPER SEVIER RIVER (south	11	74	128
MINERSVILLE (RkvFd)	26.0	13.1	22.2	9.3	EAST FORK SEVIER RIVER	4	91	136
OTTER CREEK	52.5	50.2	49.3	23.8	SOUTH FORK SEVIER RIVER	7	68	125
PIUTE	71.8	46.5	59.1	29.3	LOWER SEVIER RIVER (inclu	12	98	139
SEVIER BRIDGE	236.0	208.1	201.4	87.0	BEAVER RIVER	2	122	189
PANQUITCH LAKE	22.3	18.7	0.0	—	SEVIER & BEAVER RIVER BAS	25	90	139

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

E. Garfield, Kane, Washington, & Iron Co.

Mountain snowpack* (inches)



*Based on selected stations

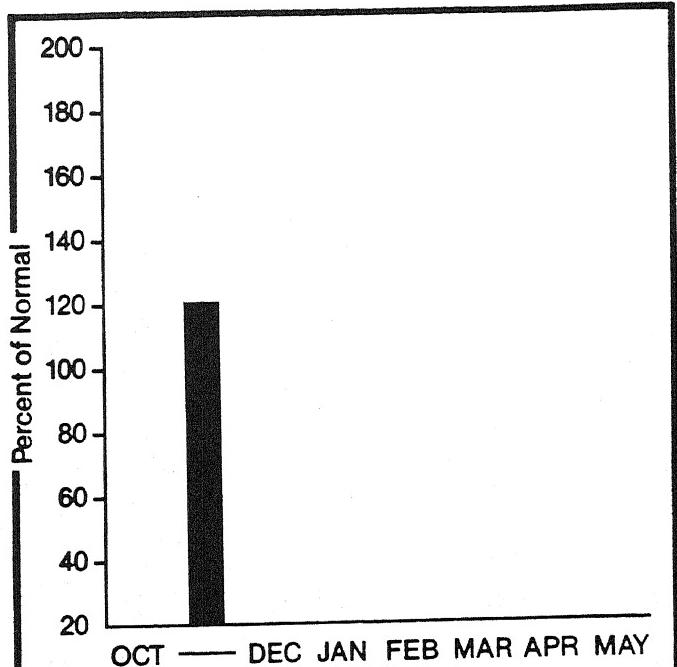
Maximum [hatched bar]

Average [dashed line]

Minimum [hatched bar]

Current [solid line]

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation [hatched bar]

Year to date precipitation [solid bar]

WATER SUPPLY OUTLOOK:

Snowpack on Southwestern Utah watersheds is slightly above average for January 1. Enterprise to New Harmony snowpack is 105%. Snow on the Virgin River is 117% of normal. Water supplies are forecast above average assuming normal snow accumulation for the remainder of the snow season. Forecasts range from 113% for Santa Clara to 145% for the Virgin. Mountain precipitation for October-December was 121% of average.

For more information contact your local Soil
Conservation Service office:
Cedar City Field Office 801-586-2429

E. GARFIELD, KANE, WASHINGTON, & IRON CO.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
VIRGIN near Hurricane	APR-JUL	62.0	90.0	145.0	195.0	113.0				
SANTA CLARA near Pine Valley	APR-JUL	5.3	6.0	113.0	192.0	46.0				
COAL CREEK near Cedar City	APR-JUL	18.4	22.0	119.0	168.5	87.0				
LAKE POWELL inflow	APR-JUL	7462.0	10600.0	142.0	192.1	99.0				

RESERVOIR STORAGE (1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVE.			
BLUE MESA	830.0	566.0	663.0	432.4	PAROWAN	4	85 116
LAKE POWELL	25002.0	22993.0	22605.0	—	ENTERPRISE TO NEW HARMONY	2	99 105
					COAL CREEK	3	63 113
					E. GARFIELD, KANE, WASHN	9	68 114

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Snow Course Measurements

January 1, 1986

SNOWCOURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80	SNOWCOURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
ASHLEY TWIN LAKES	10500		Not scheduled this month		-	-	LITTLE BEAR (UPPER)	6550	12/26	32	9.1	9.6	4.2
ATHWOOD LAKE	10500	01/01	-	9.5	-	-	LITTLE GRASSY CREEK	6100	12/30	3	0.4	5.6	1.2
BEAVER CREEK DIVIDE	8280	12/26	26	7.2	6.9	4.8	LONG FLAT	8000	12/30	12	3.6	4.6	2.6
BEAVER CREEK R.S.	7500	*			5.5	3.7	LONG VALLEY JCT.	7500	12/29	14	3.8	6.7	1.9
BEAVER CREEK-SKUNK	7150	*			9.3	4.6	LOST CREEK RESERVOIR	6130	12/27	17	3.5	4.1	1.9
BEAVER DAMS	8000	12/26	22	6.3	6.0	4.3	MAMMOTH-COTTONWOOD	8800	12/28	42	14.3	14.8	8.1
BEAVER RACE TRACK	6020	*			-	-	MERCHANT VALLEY (UP)	8750	12/31	38	9.6	7.9	5.2
BEN LDMOND PEAK	8000	12/26	63	20.3	26.5	12.6	MIDDLE BEAVER CREEK	8650	Not scheduled this month	-	-	-	-
BEN LDMOND TRAIL	6000	12/26	44	13.9	15.6	5.5	MIDDLE CANYON	7000	01/02	27	6.7	-	5.9
BEVAN'S CABIN	6550	01/02	19	4.8	-	-	MIDWAY VALLEY	9800	12/31	34	9.0	15.3	8.3
BIG FLAT	10290	12/31	52	15.0	-	6.6	MILL CREEK	6950	12/31	33	9.7	13.3	7.4
BIRCH CROSSING	8100	01/04	16	4.0	3.7	3.3	MILL D SOUTH FORK	7400	12/31	29	8.6	13.6	7.8
BLACK'S FLAT-U.M. CRK	9400	12/28	24	6.5	6.9	4.9	MONTE CRISTO R.S.	8960	12/26	35	11.2	16.0	9.7
BLACK'S FORK	9200	01/01	-	7.9E	8.1	5.4	MONTICELLO PARK	7050	*			-	-
BLACK'S FORK GS-EF	9340	12/24	17	4.2	4.3	3.4	MOSEY MOUNTAIN (LOW)	9500	12/27	27	7.3	8.4	4.2
BLACK'S FORK JUNCTN	8820	12/28	19	4.5	5.4	3.5	MT. BALDY R.S.	9500	12/28	43	13.7	13.5	9.1
BOX CREEK	9300	12/29	25	6.8	8.2	5.0	MUD CREEK #2	8600	12/28	29	7.5	8.4	5.7
BRIAN HEAD	10000	12/30	36	11.2	12.8	8.7	OAK CREEK	7760	01/01	28	7.2	6.4	5.0
BROWN DUCK RIDGE	10600	12/27	44	13.5	12.5	5.7	ONE MILE SUMMIT	7330	Not scheduled this month	-	-	-	-
BRYCE CANYON	8000	12/30	10	2.5	2.7	2.0	ORANGE OLSEN	7200	*			-	-
BUCK FLAT	9800	11/28	32	10.0	11.7	6.7	OTTER LAKE	9600	12/31	38	9.9	4.5	1.6
BUCK PASTURE	9700		Not scheduled this month		-	-	PANGUITCH LAKE	8200	12/31	13	3.6	8.1	5.1
BUCKBOARD FLAT	9000	12/19	28	8.0	5.9	7.1	PARADISE PARK	10100	12/27	32	9.8	8.7	5.6
BUG LAKE	7950	12/26	34	10.3	11.1	6.1	PARK CITY SUMMIT	9300	Not scheduled this month	-	-	-	-
BURNT CREEK	7900	*			1.3	2.4	PARLEY'S CANYON SUM.	7500	12/30	33	9.3	19.5	14.7
BURT'S-MILLER RANCH	7900	12/26	12	3.6	2.8	2.3	PAYSON R.S.	8050	01/01	33	8.9	12.6	7.7
CAMP JACKSON	8600	12/19	30	8.6	8.0	6.6	PICKLE KEG SPRING	9600	12/28	27	7.8	8.7	6.1
CASTLE VALLEY	9580	12/31	28	6.1	9.2	6.1	PINE CANYON	8000	12/27	31	9.8	15.1	6.8
CEDAR CITY GOLF COUR	5800	*			.5	-	PINE CREEK	8800	12/31	34	9.9	9.1	6.8
CHALK CREEK #1	9100	12/26	48	15.7	14.3	8.8	REDDEN MINE LOWER	8500	12/26	33	10.9	11.9	6.6
CHALK CREEK #2	8200	12/26	32	9.1	8.9	6.1	RED PINE RIDGE	9200	12/28	27	8.1	11.2	6.7
CHALK CREEK #3	7500	12/26	19	4.6	4.9	3.5	REES'S FLAT	7300	01/01	30	7.6	8.4	5.6
CHEPETA-WHITERKS. LK	10250		Not scheduled this month		-	-	REYNOLDS PARK	10400	Not scheduled this month	-	-	-	-
CLEAR CREEK MEADOWS	9420	"	"	"	14.8	8.0	ROCK CREEK	7900	12/27	24	6.6	7.7	2.2
CLEAR CREEK RIDGE #1	9200	12/27	31	8.7	11.0	7.7	ROCKY BASIN-SETTLEMENT	8900	01/02	35	11.3	-	18.1
CLEAR CREEK RIDGE #2	8000	12/27	26	6.5	8.4	6.2	SAGEBRUSH FLAT	6300	*			-	-
CLEAR CREEK RIDGE #3	6600	12/27	19	4.1	5.1	3.5	SEELEY CREEK R.S.	10000	12/28	31	9.8	13.1	4.7
CUE RIVER R.S.	5450	12/26	20	4.8	5.0	3.5	SHINGLE MILL	6200	Not scheduled this month	-	-	-	-
CURRENT CREEK	8000	12/27	26	7.7	7.7	3.9	SILVER LAKE(BRIGHT.)	8730	12/31	41	12.9	17.3	10.0
DANIELS-STRAWBERRY	8000	12/27	31	10.8	9.3	5.7	SMITH & MOREHOUSE	7600	12/26	27	7.6	9.2	5.3
DESERET PEAK	9250		Not scheduled this month		-	9.2	SNOWBIRD GAD VALLEY	9700	Not scheduled this month	-	-	-	-
DILL'S CAMP	9200	12/28	24	7.2	8.4	5.2	SOAPSTONE R.S.	7800	01/01	-	6.7E	7.2	5.4
DONKEY RESERVOIR	9800	12/29	16	3.9	-	-	SPIRIT LAKE	10300	12/27	27	7.6	5.2	5.1
DRY BREAD POND	8350	12/27	26	7.8	12.4	6.8	SQUAW SPRINGS	9300	12/29	20	4.8	4.2	3.1
DRY VALLEY DIVIDE AL	8100	*			7.4	6.7	STEEL CREEK PARK	10100	12/26	36	9.7	8.0	6.3
DUCK CREEK R.S.	8700	01/01	-	5.9E	9.2	5.1	STEEP HOLLOW #1	8500	*			-	-
EAST PORTAL	7560	*			8.8	4.8	STEEP HOLLOW #2	7700	*			-	-
EAST SHINGELE LAKE	9800	Not scheduled this month			-	-	STILLWATER CAMP	8550	12/26	21	5.5	17.4	8.9
FARMINGTON CANYON	8000	12/26	51	16.7	21.9	12.6	STRAWBERRY DIVIDE	8400	12/31	44	12.1	11.7	7.9
FARMINGTON CANYON L.	6950	12/26	43	12.4	16.8	7.5	STUART R.S.	7950	12/28	19	4.1	6.2	3.1
FARNSWORTH LAKE	9600	12/28	30	8.9	10.4	7.9	SUSC RANCH	8200	01/06	17	5.0	5.8	3.4
FISH LAKE	8700	12/29	22	5.2	3.8	3.1	TALL POLES	8800	01/06	28	6.5	8.6	6.0
FIVE POINT LAKE	11000	01/01	-	8.4	-	-	THISTLE FLAT	8500	Not scheduled this month	-	-	-	-
FRANKLIN BASIN	8020	12/26	35	11.0	15.9	7.6	TIMPANDOS DIVIDE	8140	01/01	44	14.0	-	10.4
G.B.R.C. HEADQUARTER	8700	12/26	32	10.2	9.8	6.8	TONY GROVE LAKE	8400	12/26	52	17.5	22.2	14.2
G.B.R.C. MEADOWS	10000	12/28	39	12.7	14.2	9.0	TONY GROVE R.S.	6250	12/26	25	6.6	8.7	4.6
GARDEN CITY SUMMIT	7600	12/26	32	9.8	11.5	7.3	TRIAL LAKE	9960	12/26	49	15.8	14.0	10.7
GEORGE PEAK	9000		Not scheduled this month		-	-	TROUT CREEK	9400	12/27	23	6.2	5.9	4.3
GOOSEBERRY R.S.	8000	12/28	23	6.7	6.7	5.2	UPPER JOES VALLEY	8900	12/28	21	5.3	8.6	4.2
GRIZZLY RIDGE	8500	*			4.3	4.3	VERNON CREEK	7500	01/07	25	6.2	-	4.0
HARDSCRABBLE	6700	12/26	40	12.5	16.5	-	VIPONT	7670	Not scheduled this month	-	-	-	-
HARRIS FLAT	7700	12/31	17	3.8	7.4	3.2	WEBSTER FLAT	9200	12/31	26	6.5	11.7	6.4
HAYDEN FORK	9400	12/26	24	7.1	8.5	5.6	WHITE RIVER #1	8550	12/27	30	8.1	7.6	5.3
HENRY'S FORK	10000		Not scheduled this month		-	-	WHITE RIVER #3	7400	12/27	21	4.9	5.1	3.8
HEWINTA G.S.	9500	12/26	19	4.2	4.5	3.5	WIDTSOE-ESCALANTE #3	9500	12/29	23	6.2	7.3	5.0
HOLE-IN-THE-ROCK	9150	12/26	15	3.4	-	6.5	WILLOW FLAT	6100	12/26	32	9.2	8.8	6.1
HOLE-IN-THE-ROCK GS	8300		Not scheduled this month		-	-	WRIGLEY CREEK	9000	12/28	24	6.6	7.4	4.3
HICKERSON PARK	9100	12/27	16	3.4	3.0	1.9	YANKEE RESERVOIR	8700	12/30	17	4.0	5.3	4.1
HOBBLE CREEK SUMMIT	7420	12/27	30	8.5	9.9	5.9							
HORSE RIDGE	8260	12/27	34	10.3	15.0	7.6							
HUNTINGTON-HORSESHOE	9800	12/28	38	13.8	13.2	7.9							
INDIAN CANYON	9100	12/27	31	7.9	8.0	5.3							
JACKSON PARK	10600	*			8.1	2.7							
JACKSON VALLEY	8850	12/29	19	4.9	4.5	2.9							
KILFOIL CREEK	7300	12/27	29	7.3	10.2	4.8							
KIMBERLY MINE(UPPER)	9300	12/31	36	9.3	9.3	6.0							
KING'S CABIN (UPPER)	8730	12/27	21	5.4	5.5	4.4							
KLONDIKE NARROWS	7400	12/26	31	9.5	14.0	7.7							
KOLOB-CRYSTAL	9250	12/31	34	9.6	-	6.5							
LAKEFORK BASIN	11100	01/01	-	10.3	-	-							
LAKEFORK MOUNTAIN #1	10200	12/27	29	8.8	6.9	4.1							
LAKEFORK MOUNTAIN #3	8400	12/27	19	4.8	4.6	2.2							
LAMBS CANYON	7400	12/30	32	9.4	12.9	7.4							
LASAL MOUNTAIN LOWER	8800	12/18	23	6.6	3.3	4.7							
LASAL MOUNTAIN (UPP)	9850	12/18	33	9.2	5.4	6.9							
LIGHTNING LAKE	10500	01/01	-	15.3	-	-							
LILY LAKE	9050	12/26	31	9.1	9.1	-							
LITTLE BEAR (LOWER)	6000	12/26	28	7.6	8.5	3.6							

NOTE * These sites have been discontinued during the past summer as a result of the Soil Conservation Service Snow Course Reduction Plan, PHASE-I. These sites have proved to be duplicative in nature.

Black's Fork, Duck Creek R.S., and Soapstone R.S. snow courses have also been discontinued as a result of statistical testing in PHASE-II of the above mentioned plan. For these sites, however, estimates will be produced and published monthly for the next five years.